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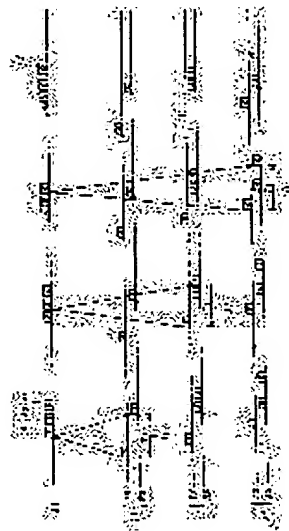
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(54) SATELLITE TRACKING SYSTEM

(57)Abstract:

PURPOSE: To enable high-accuracy tracking without any line loss due to the tracking by using a round trip delay value which is used for a sent frame synchronization procedure.

CONSTITUTION: A reference station A can detect the transmission-reception timing difference TA36 of a reference burst 39 that the station sends out. Further, local stations B and C which are already put in a sent frame synchronizing state can also detect transmission-reception timing differences TB37 and TC38 of local bursts 40 and 41 that those stations send out. The values of those TA36, TB37, and TC38 indicate the propagation delay (round trip delay) between the stations A, B, and C, and a satellite, so those value and the propagation speed of a radio wave are used to calculate the distances between the respective stations and satellite from a relational expression. Consequently, the high- accuracy tracking having no line loss due to the tracking is enabled.



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